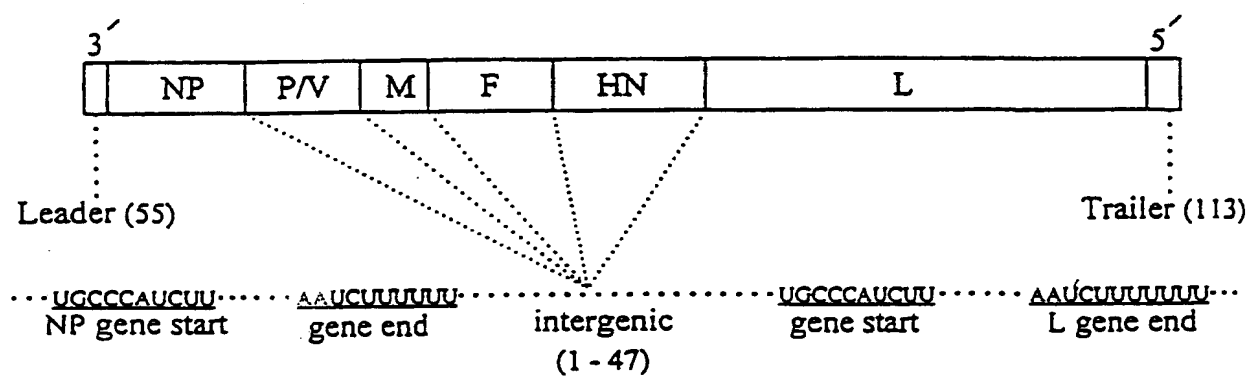
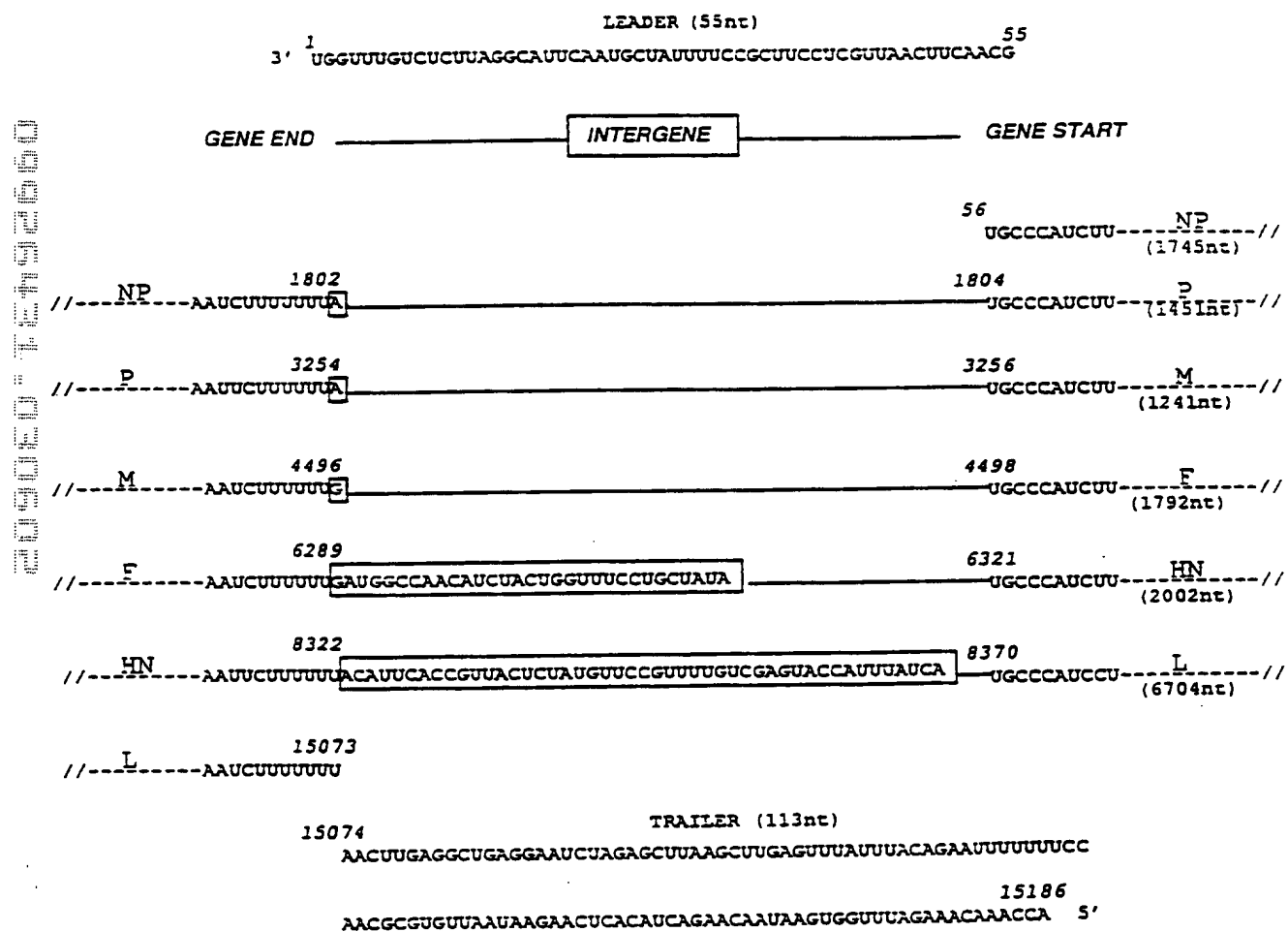


FIGURE 1



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FIGURE 2



B26 Leader 3' UGGUUUUUUCUCUUAAGCUCUUAAGCGAAUUUUCGCGUUCUCGUGAGCUUUCAGCAGUCCCAUUCU  
 .....

Beaudette C Leader 3' UGGUUUUUUCUCUUAAGCUCUUAAGCGAAUUUUCGCGUUCUCGUGAGCUUUCAGCAGUCCCAUUCU  
 .....

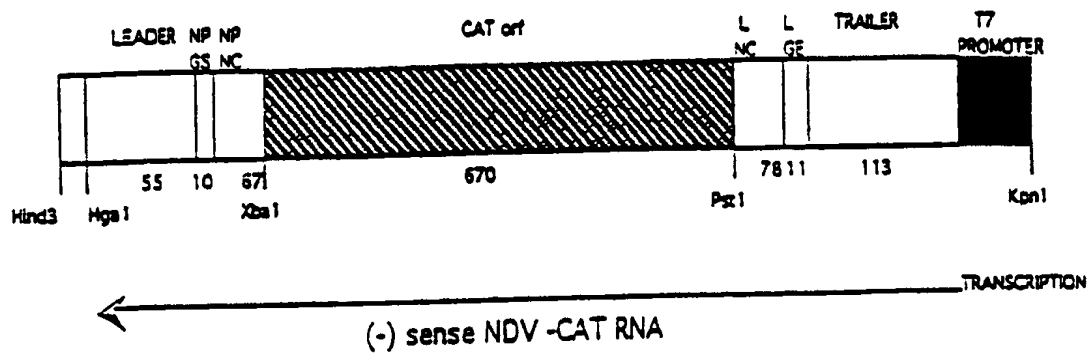
B1 Leader 3' UGGUUUUUUCUCUUAAGCUCUUAAGCGAAUUUUCGCGUUCUCGUGAGCUUUCAGCAGUCCCAUUCU  
 .....

NP gene start

|                     |    |   |  |                        |
|---------------------|----|---|--|------------------------|
| Beaudette C Trailer | J' | _AAGTCAGGCGAGCAATACAGCTGTAAGCTGAGCTGTAATACAGAAATTTTTC<br>.....<br>B1 Trailer J' | CAGTCGAGCTGGAACTCCGAGCTGAGCTGAGCTGTAATACAGAAATTTTTC<br>..... | 58                     |
| Beaudette C Trailer |    | CACCGCGGTGTAATAGAACTCACATCAGGAGTAAGCGGTTTGAAACCA<br>.....<br>B1 Trailer         | CACCGCGGTGTAATAGAACTCACATCAGGAGTAAGCGGTTTGAAACCA<br>.....    | 59<br>5' 113<br>5' 114 |

[illegible]

FIGURE 4



## FIGURE 5

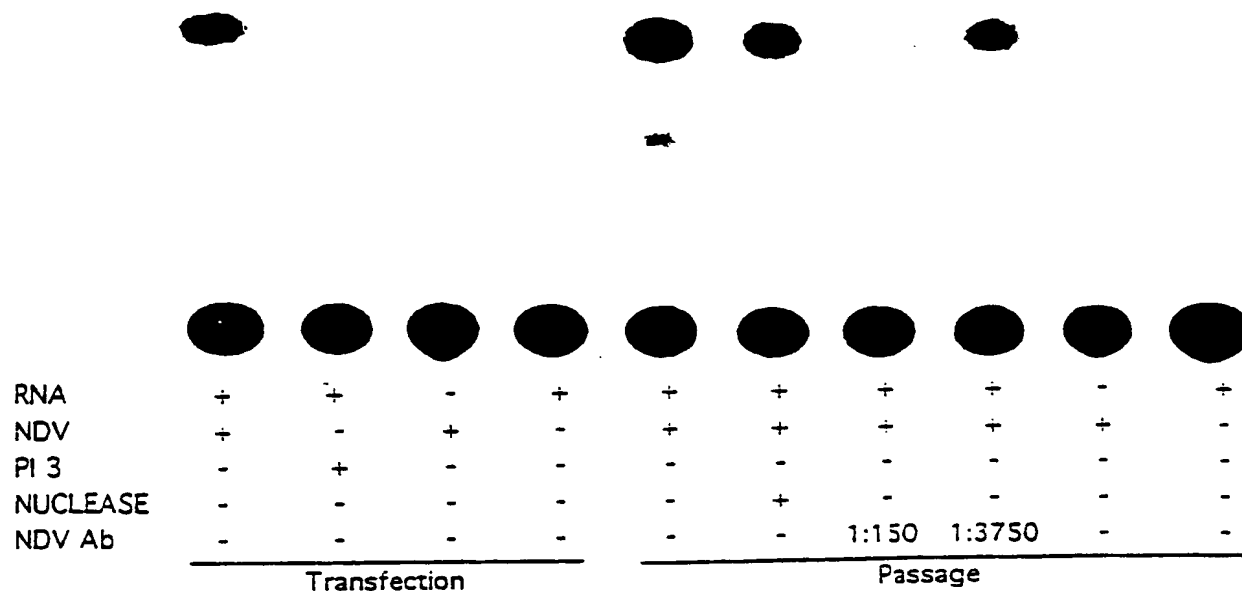


Fig. 5A

Demonstration of NDV minigenome transcription by CAT activity.

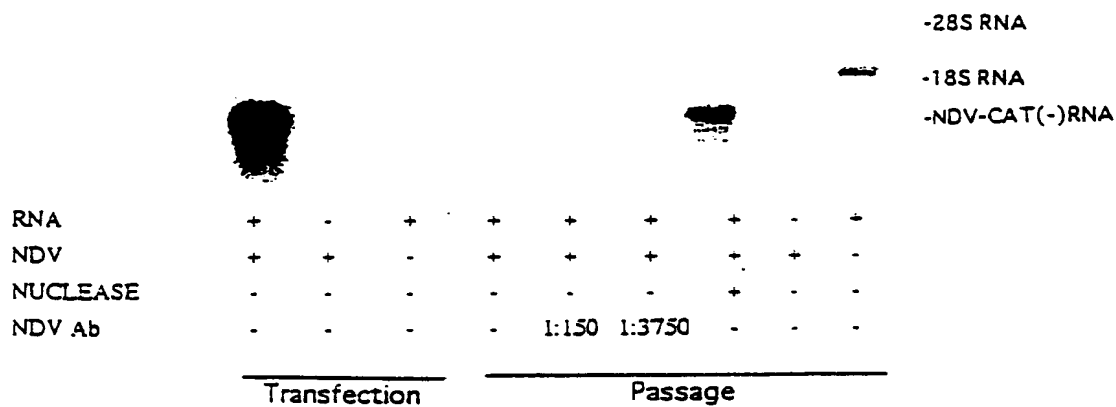
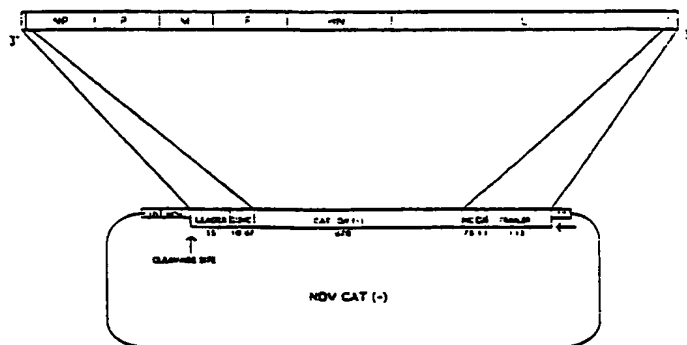


Fig. 5B

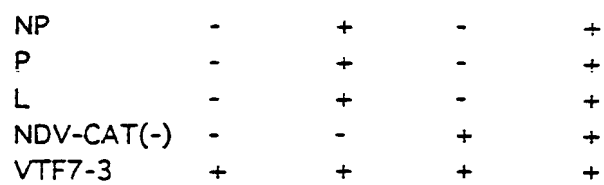
Demonstration of NDV minigenome replication by Northern hybridization.

### FIGURE 6



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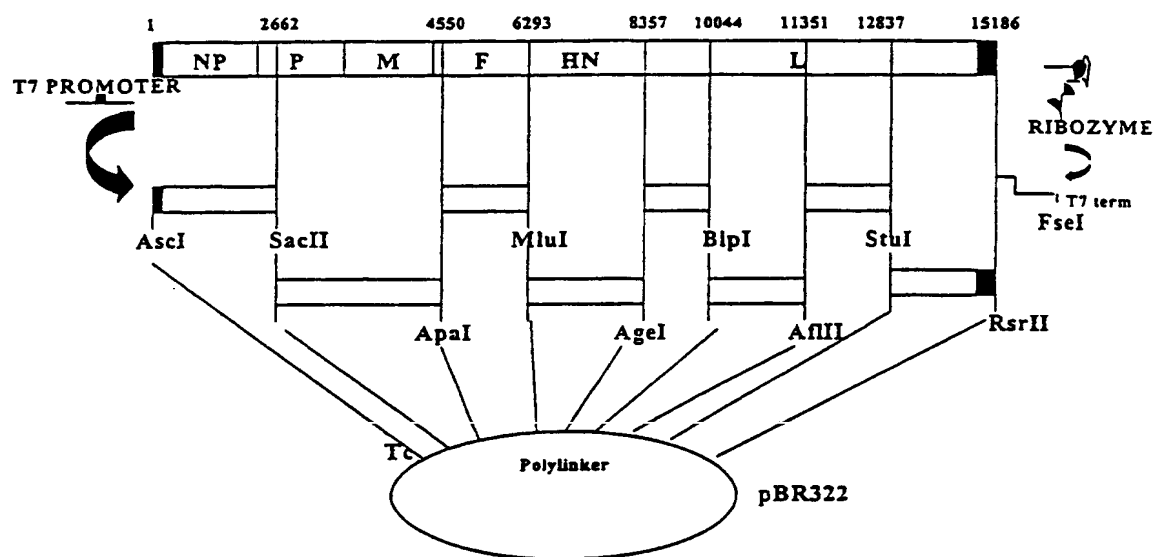
## FIGURE 7



|            |   |   |   |   |
|------------|---|---|---|---|
| NP         | - | + | - | + |
| P          | - | + | - | + |
| L          | - | + | - | + |
| NDV-CAT(-) | - | - | + | + |
| VTF7-3     | + | + | + | + |

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### FIGURE 8



|     |     |     |
|-----|-----|-----|
| 1   | 100 | 100 |
| 2   | 100 | 100 |
| 3   | 100 | 100 |
| 4   | 100 | 100 |
| 5   | 100 | 100 |
| 6   | 100 | 100 |
| 7   | 100 | 100 |
| 8   | 100 | 100 |
| 9   | 100 | 100 |
| 10  | 100 | 100 |
| 11  | 100 | 100 |
| 12  | 100 | 100 |
| 13  | 100 | 100 |
| 14  | 100 | 100 |
| 15  | 100 | 100 |
| 16  | 100 | 100 |
| 17  | 100 | 100 |
| 18  | 100 | 100 |
| 19  | 100 | 100 |
| 20  | 100 | 100 |
| 21  | 100 | 100 |
| 22  | 100 | 100 |
| 23  | 100 | 100 |
| 24  | 100 | 100 |
| 25  | 100 | 100 |
| 26  | 100 | 100 |
| 27  | 100 | 100 |
| 28  | 100 | 100 |
| 29  | 100 | 100 |
| 30  | 100 | 100 |
| 31  | 100 | 100 |
| 32  | 100 | 100 |
| 33  | 100 | 100 |
| 34  | 100 | 100 |
| 35  | 100 | 100 |
| 36  | 100 | 100 |
| 37  | 100 | 100 |
| 38  | 100 | 100 |
| 39  | 100 | 100 |
| 40  | 100 | 100 |
| 41  | 100 | 100 |
| 42  | 100 | 100 |
| 43  | 100 | 100 |
| 44  | 100 | 100 |
| 45  | 100 | 100 |
| 46  | 100 | 100 |
| 47  | 100 | 100 |
| 48  | 100 | 100 |
| 49  | 100 | 100 |
| 50  | 100 | 100 |
| 51  | 100 | 100 |
| 52  | 100 | 100 |
| 53  | 100 | 100 |
| 54  | 100 | 100 |
| 55  | 100 | 100 |
| 56  | 100 | 100 |
| 57  | 100 | 100 |
| 58  | 100 | 100 |
| 59  | 100 | 100 |
| 60  | 100 | 100 |
| 61  | 100 | 100 |
| 62  | 100 | 100 |
| 63  | 100 | 100 |
| 64  | 100 | 100 |
| 65  | 100 | 100 |
| 66  | 100 | 100 |
| 67  | 100 | 100 |
| 68  | 100 | 100 |
| 69  | 100 | 100 |
| 70  | 100 | 100 |
| 71  | 100 | 100 |
| 72  | 100 | 100 |
| 73  | 100 | 100 |
| 74  | 100 | 100 |
| 75  | 100 | 100 |
| 76  | 100 | 100 |
| 77  | 100 | 100 |
| 78  | 100 | 100 |
| 79  | 100 | 100 |
| 80  | 100 | 100 |
| 81  | 100 | 100 |
| 82  | 100 | 100 |
| 83  | 100 | 100 |
| 84  | 100 | 100 |
| 85  | 100 | 100 |
| 86  | 100 | 100 |
| 87  | 100 | 100 |
| 88  | 100 | 100 |
| 89  | 100 | 100 |
| 90  | 100 | 100 |
| 91  | 100 | 100 |
| 92  | 100 | 100 |
| 93  | 100 | 100 |
| 94  | 100 | 100 |
| 95  | 100 | 100 |
| 96  | 100 | 100 |
| 97  | 100 | 100 |
| 98  | 100 | 100 |
| 99  | 100 | 100 |
| 100 | 100 | 100 |



FIGURE 9

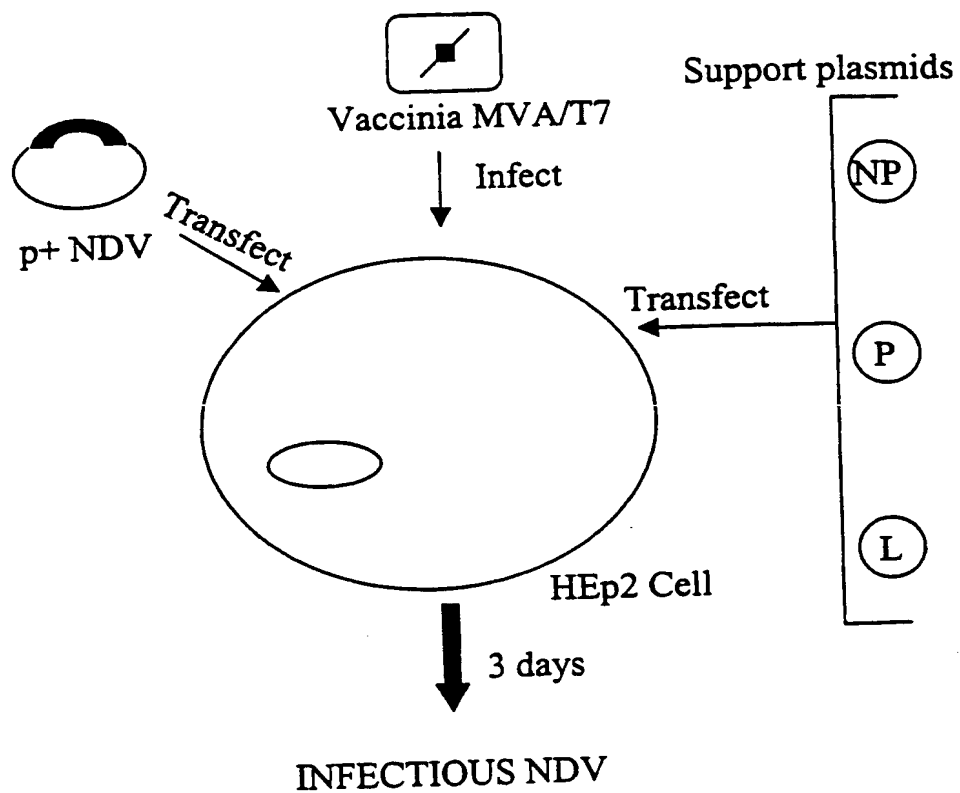
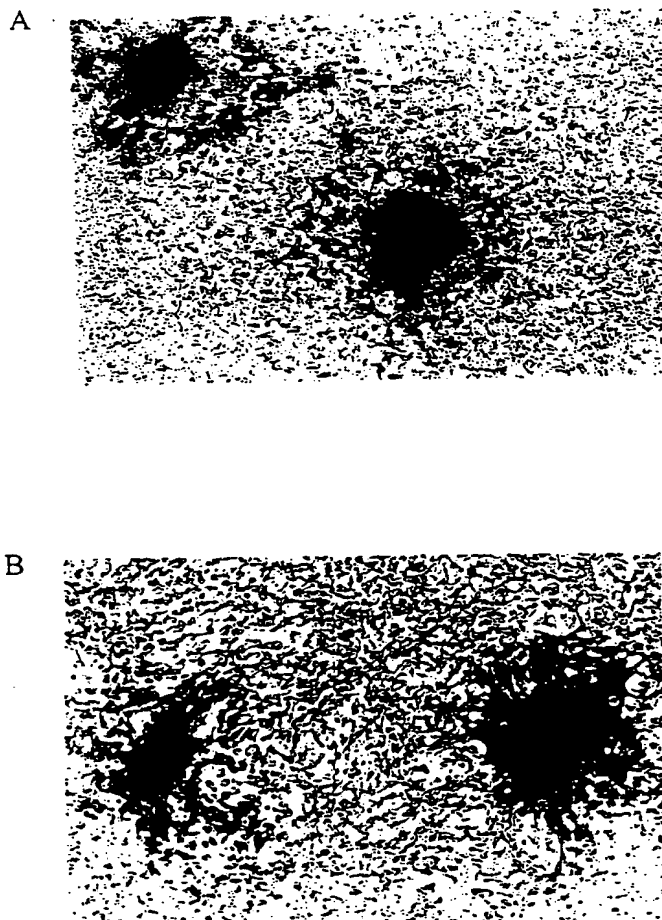


FIGURE 9

**FIGURE 10**



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FIGURE 11

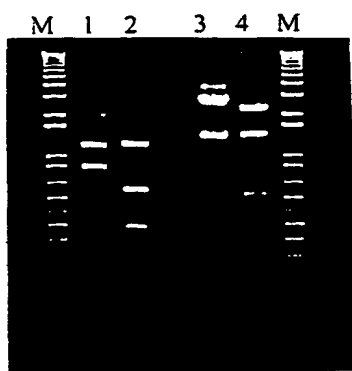


Figure 11

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FIGURE 12

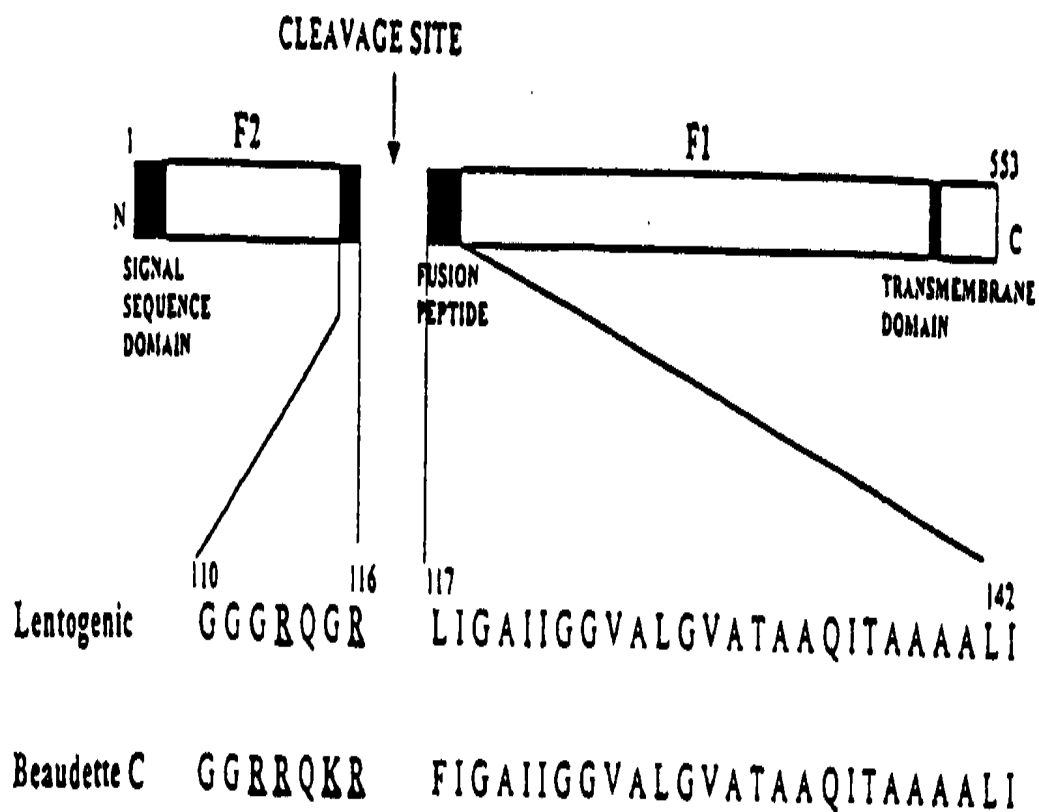
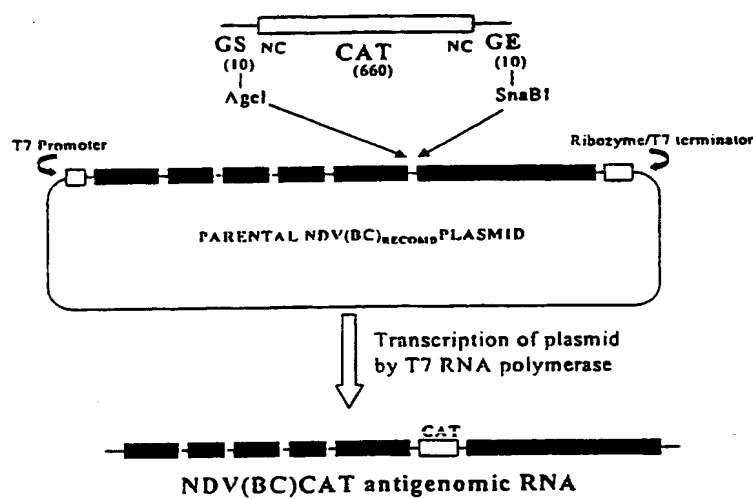
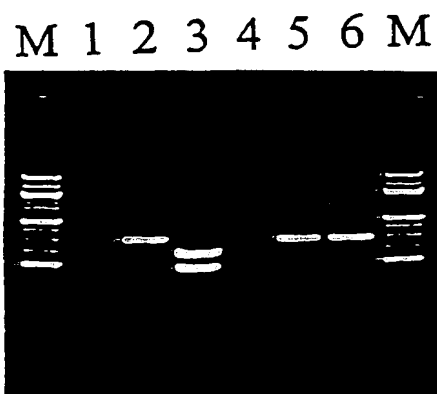


FIGURE 13





**FIGURE 15**



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FIGURE 16

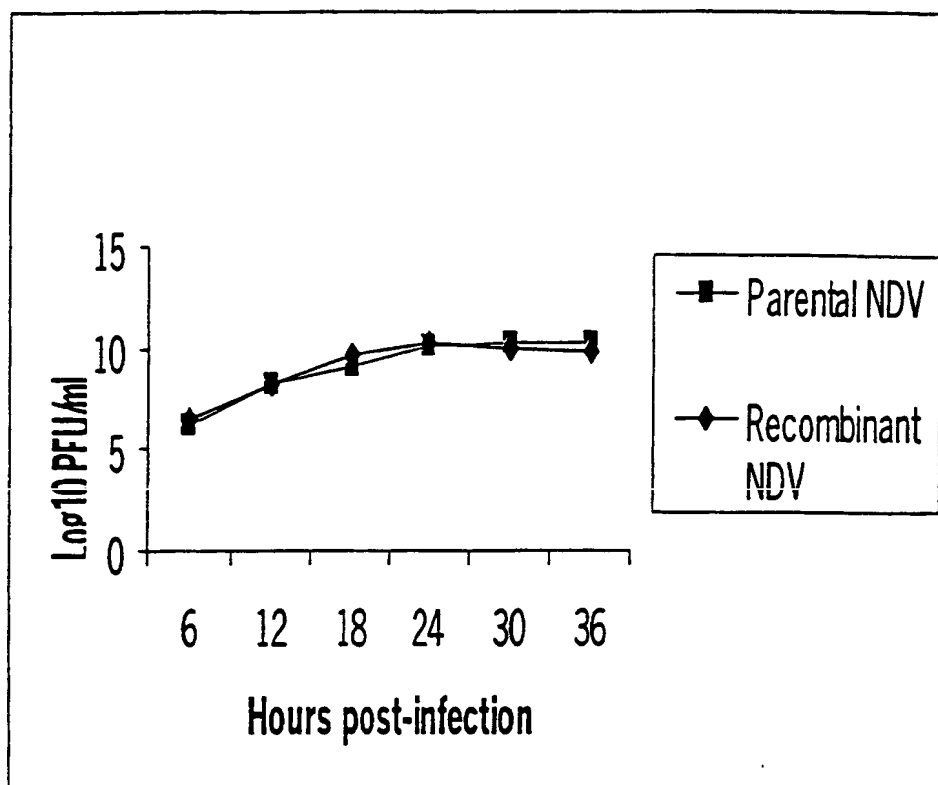




FIGURE 17

